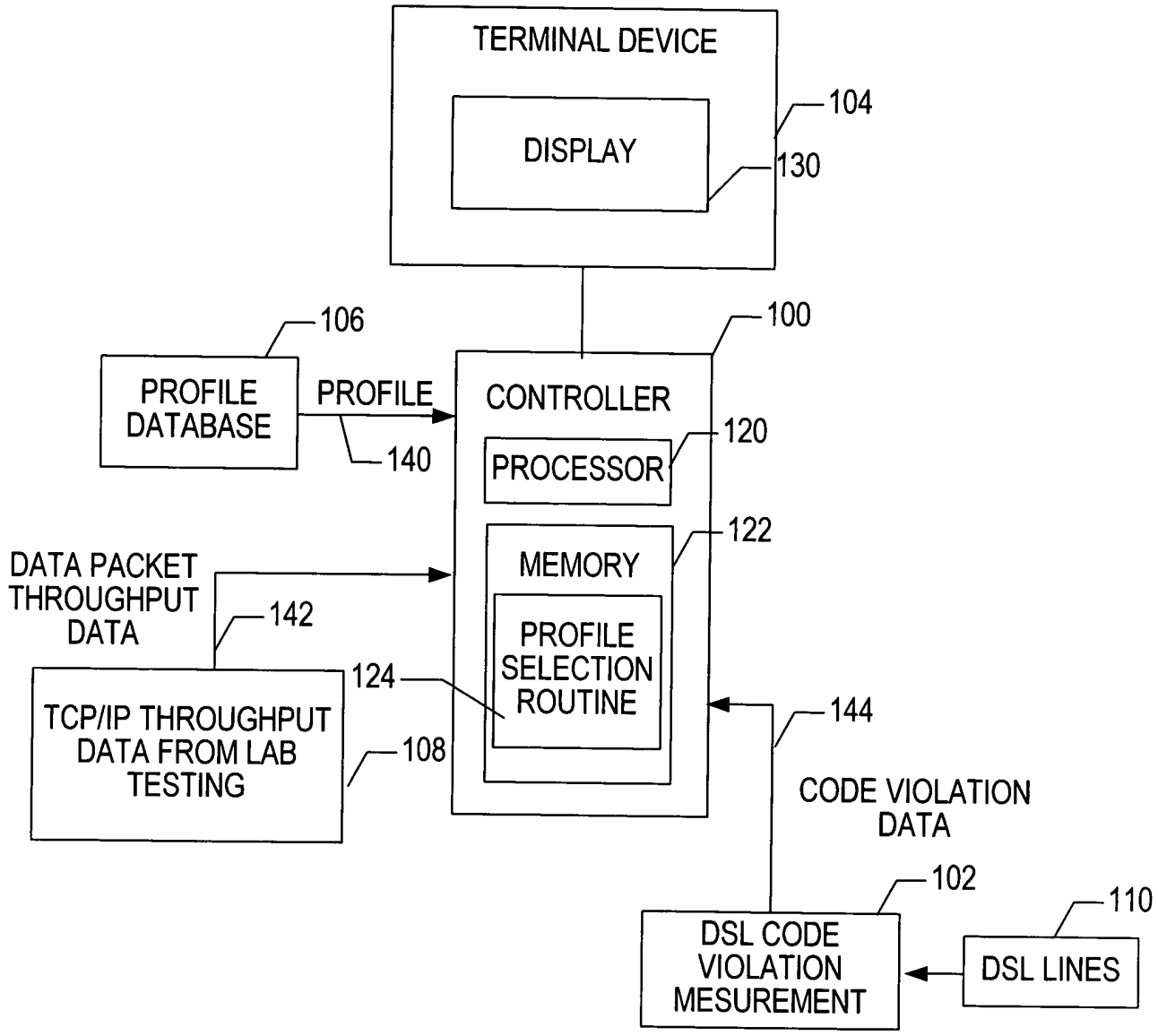
TERMINAL DEVICE
DISPLAY
104
130
106
100
PROFILE DATABASE
PROFILE
CONTROLLER
140
120
PROCESSOR
122
MEMORY
DATA PACKET THROUGHPUT DATA
142
PROFILE SELECTION ROUTINE
124
144
TCP/IP THROUGHPUT DATA FROM LAB TESTING
108
CODE VIOLATION DATA
102
110
DSL CODE VIOLATION MESUREMENT
DSL LINES

FIG. 1

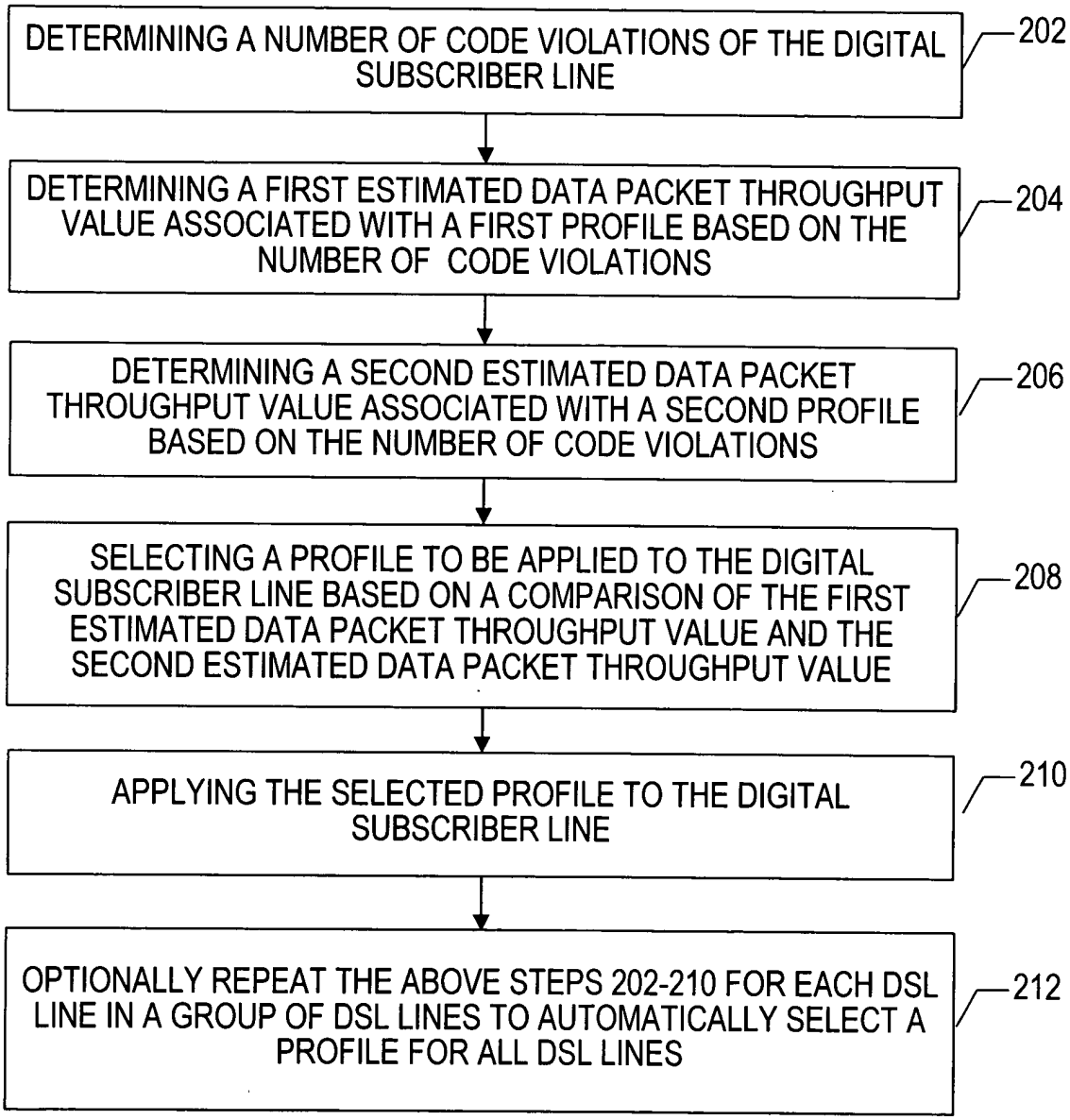
DETERMINING A NUMBER OF CODE VIOLATIONS OF THE DIGITAL SUBSCRIBER LINE
202
DETERMINING A FIRST ESTIMATED DATA PACKET THROUGHPUT VALUE ASSOCIATED WITH A FIRST PROFILE BASED ON THE NUMBER OF CODE VIOLATIONS
204
DETERMINING A SECOND ESTIMATED DATA PACKET THROUGHPUT VALUE ASSOCIATED WITH A SECOND PROFILE BASED ON THE NUMBER OF CODE VIOLATIONS
206
SELECTING A PROFILE TO BE APPLIED TO THE DIGITAL SUBSCRIBER LINE BASED ON A COMPARISON OF THE FIRST ESTIMATED DATA PACKET THROUGHPUT VALUE AND THE SECOND ESTIMATED DATA PACKET THROUGHPUT VALUE
208
APPLYING THE SELECTED PROFILE TO THE DIGITAL SUBSCRIBER LINE
210
OPTIONALLY REPEAT THE ABOVE STEPS 202-210 FOR EACH DSL LINE IN A GROUP OF DSL LINES TO AUTOMATICALLY SELECT A PROFILE FOR ALL DSL LINES
212

FIG. 2

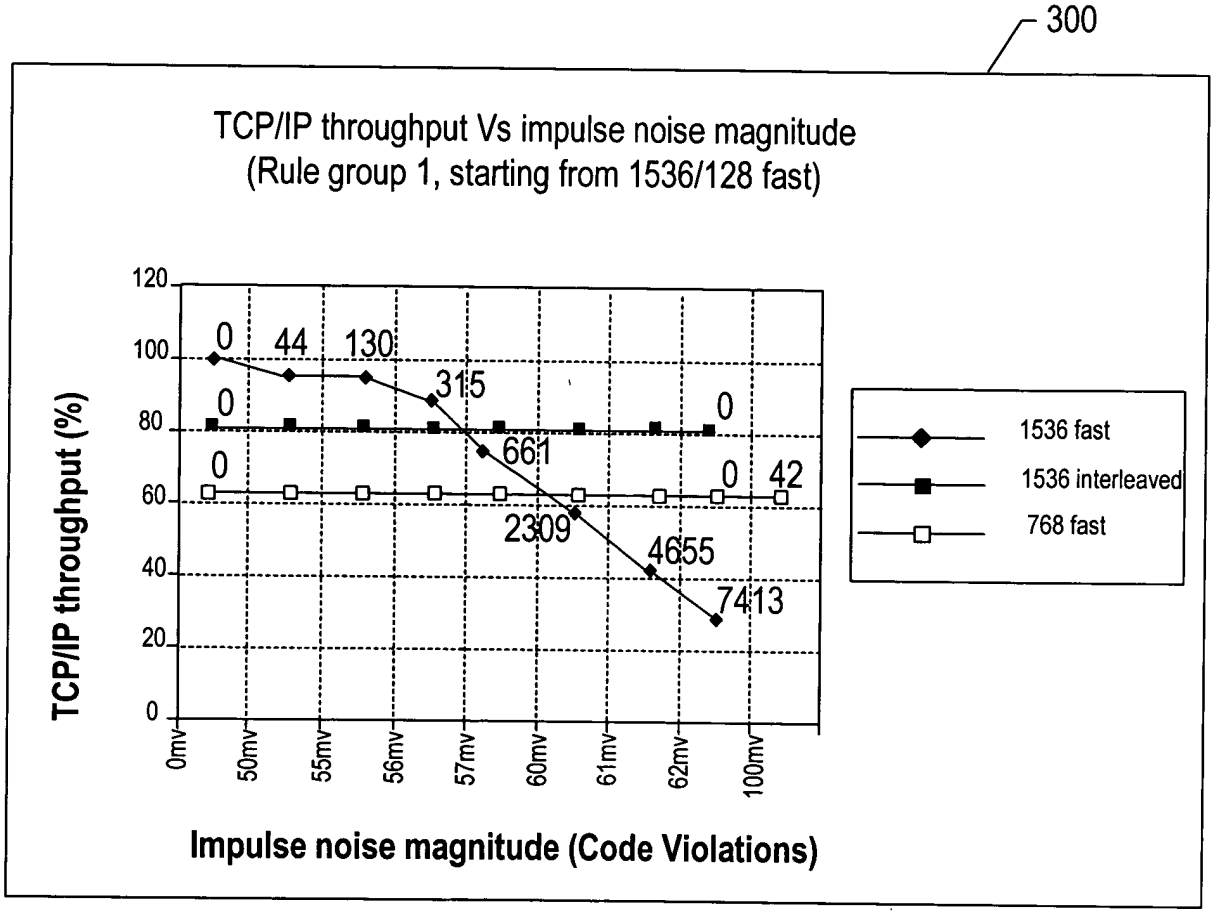
300
TCP/IP throughput Vs impulse noise magnitude
(Rule group 1, starting from 1536/128 fast)
TCP/IP throughput (%)
120
100
80
60
40
20
0
0
44
130
315
661
2309
4655
7413
0
0
0
0
42
0mv
50mv
55mv
56mv
57mv
60mv
61mv
62mv
100mv
Impulse noise magnitude (Code Violations)
1536 fast
1536 interleaved
768 fast

FIG. 3

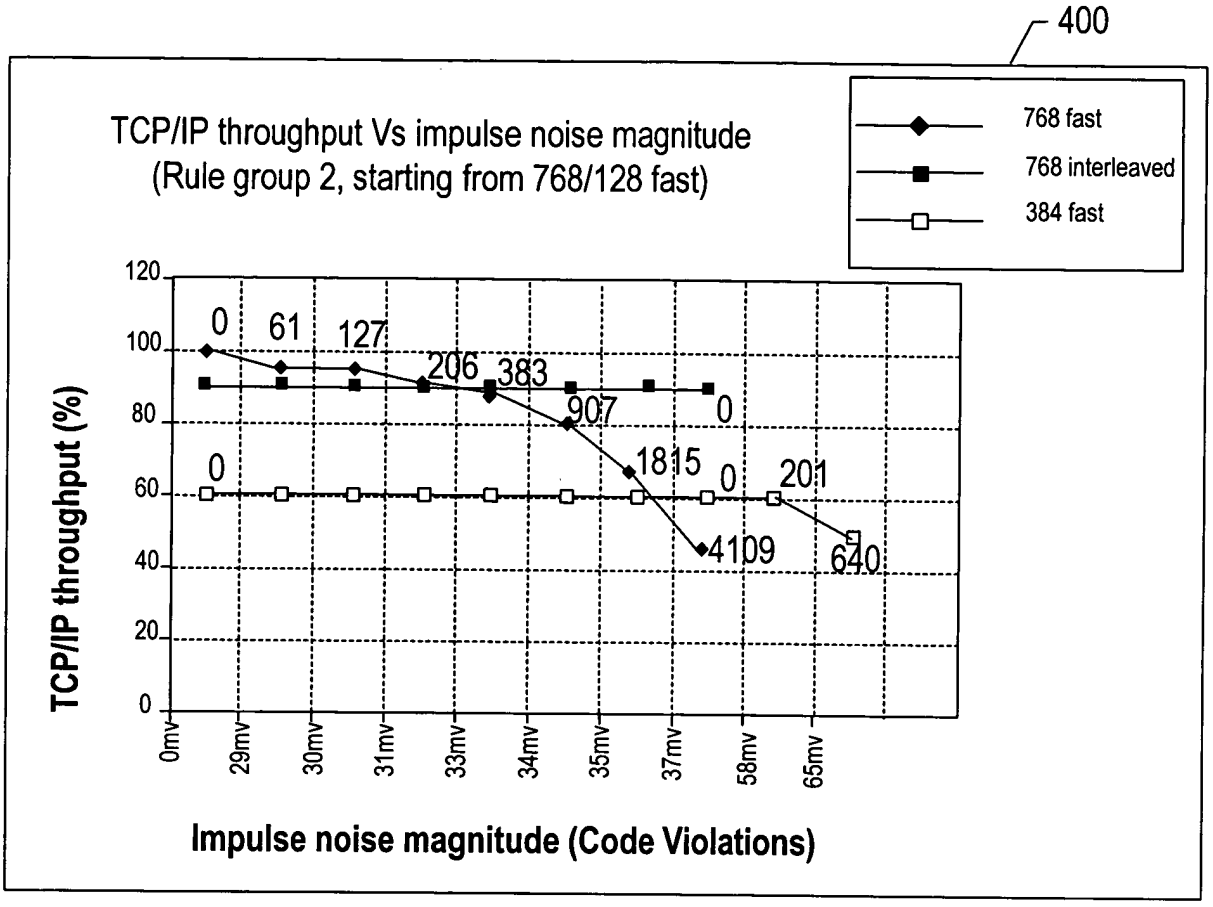
400
TCP/IP throughput Vs impulse noise magnitude
(Rule group 2, starting from 768/128 fast)
768 fast
768 interleaved
384 fast
TCP/IP throughput (%)
120
100
80
60
40
20
0
0
61
127
206
383
907
1815
4109
0
0
201
640
0mv
29mv
30mv
31mv
33mv
34mv
35mv
37mv
58mv
65mv
Impulse noise magnitude (Code Violations)

FIG. 4

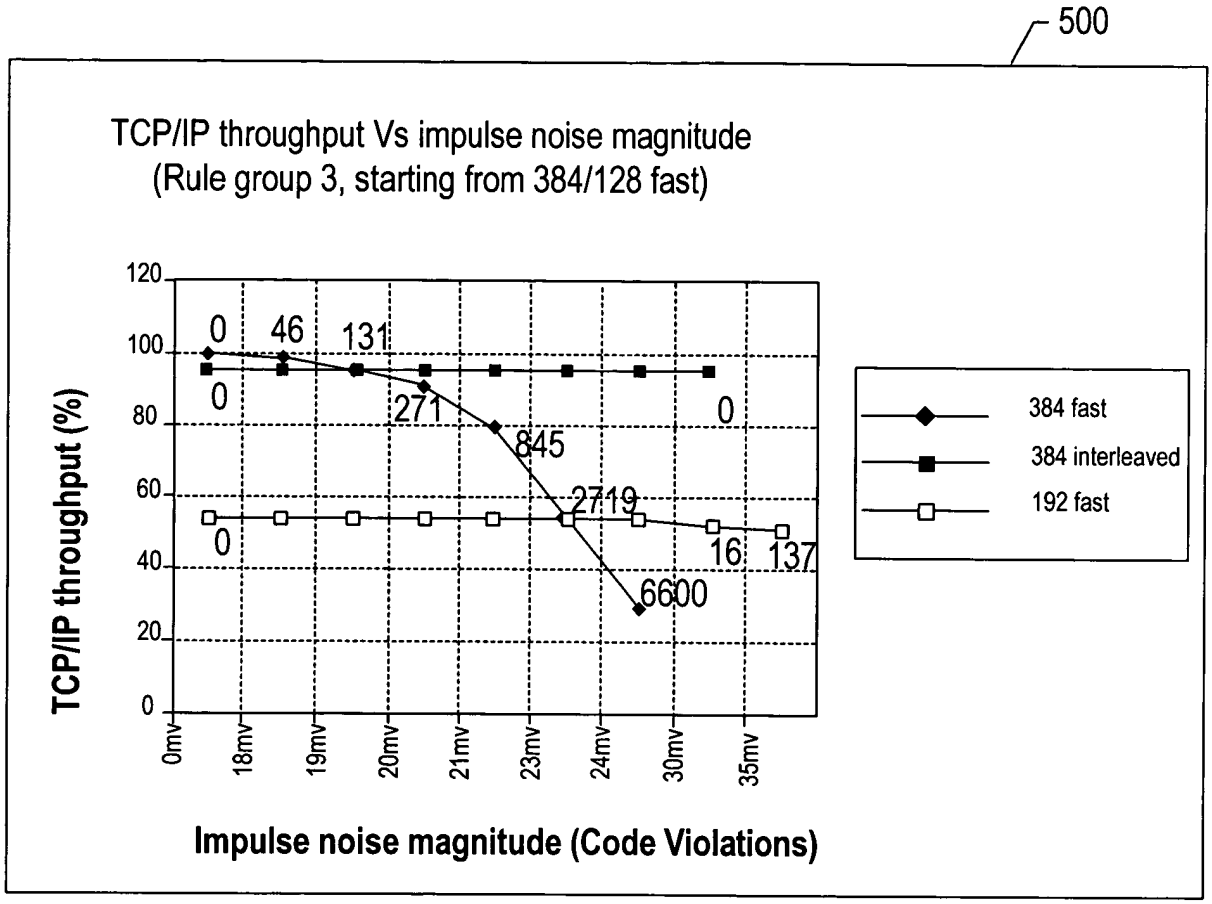
500
TCP/IP throughput Vs impulse noise magnitude
(Rule group 3, starting from 384/128 fast)
TCP/IP throughput (%)
120
100
80
60
40
20
0
0
46
131
271
845
2719
6600
0
0
0
16
137
0mv
18mv
19mv
20mv
21mv
23mv
24mv
30mv
35mv
Impulse noise magnitude (Code Violations)
384 fast
384 interleaved
192 fast

FIG. 5

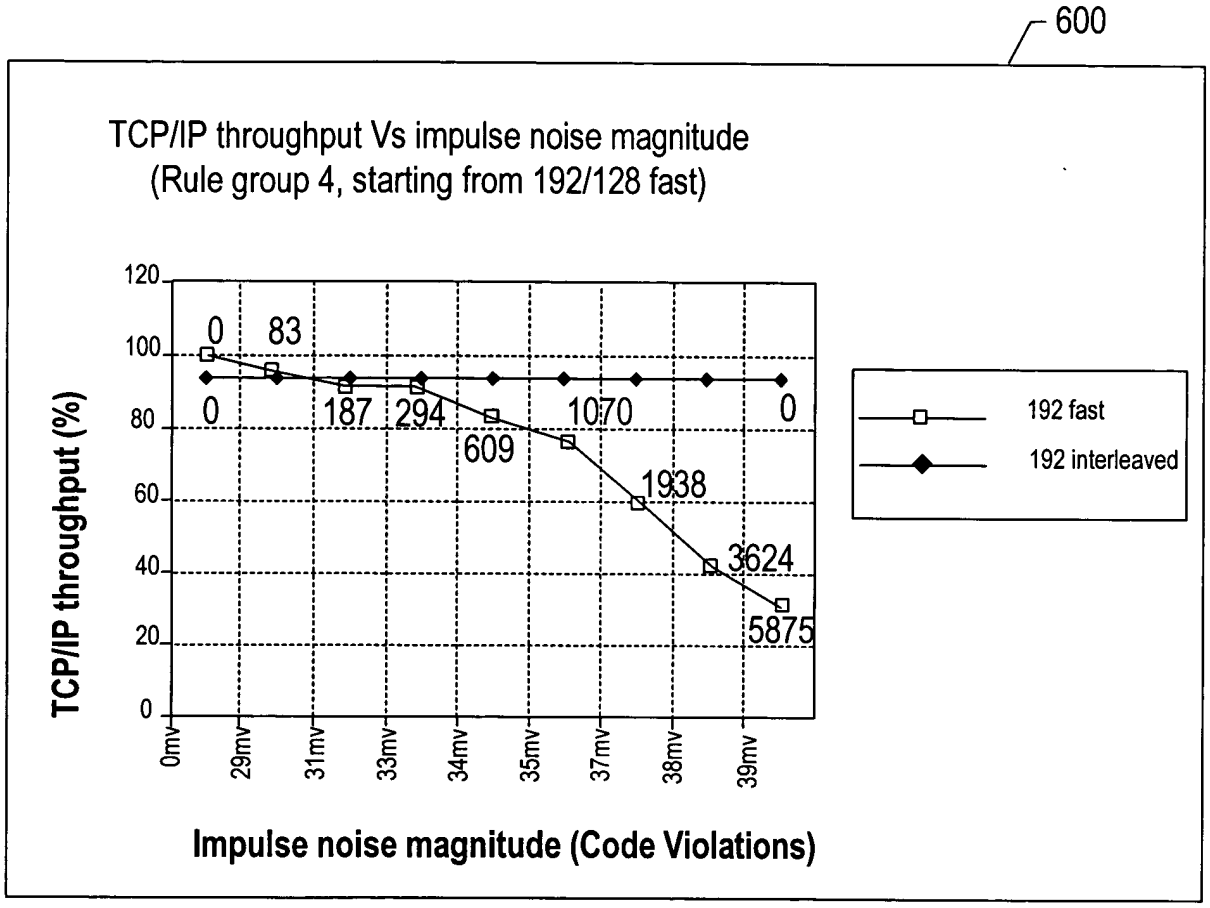
600
TCP/IP throughput Vs impulse noise magnitude
(Rule group 4, starting from 192/128 fast)
TCP/IP throughput (%)
120
100
80
60
40
20
0
0
83
187
294
609
1070
1938
3624
5875
0
0mv
29mv
31mv
33mv
34mv
35mv
37mv
38mv
39mv
Impulse noise magnitude (Code Violations)
192 fast
192 interleaved

FIG. 6